

Table 3-4. Laboratory Analyses, Methods and Reporting Limits – Full Analytical Suite (revised April 2016¹)

Laboratory Analyses	Method	Reporting Limit (RL) ² (mg/L)
Alkalinity, as CaCO ₃	SM 2320B	1
Aluminum, total and dissolved	EPA 6010C	0.1
Ammonia as N	SM 4500 NH ₃ G	0.03
Antimony, total and dissolved	EPA 6020A	0.003
Arsenic, total and dissolved	EPA 6020A	0.003
Barium, total and dissolved	EPA 6020A	0.001
Beryllium, total and dissolved	EPA 6020A	0.0002
Biochemical Oxygen Demand	EPA 405.1	2
Boron, total and dissolved	EPA 6020A	0.05
Cadmium, total and dissolved	EPA 6020A	0.0002
Calcium, dissolved	EPA 6020A	0.05
Chemical Oxygen Demand	EPA 410.4	5
Chloride	EPA 300.0	0.2
Chromium, total and dissolved	EPA 6020A	0.0015
Cobalt, total and dissolved	EPA 6020A	0.001
Copper, total and dissolved	EPA 6020A	0.001
Fluoride	EPA 300.0	0.1
Hardness	SM 2340B (by calculation)	0.1
Iron, total and dissolved	EPA 6010C	0.06
Lead, total and dissolved	EPA 6020A	0.003
Magnesium, dissolved	EPA 6010C	0.10
Manganese, total and dissolved	EPA 6020A	0.001
Mercury, total and dissolved	EPA 7470A	0.0002
Molybdenum, total and dissolved	EPA 6020A	0.001
Nickel, total and dissolved	EPA 6020A	0.001
Nitrate+Nitrite as N	EPA 353.2	0.05
Nitrate, as N	EPA 300.0	0.05
Total Phosphorus	SM 4500 PE	0.01
Potassium, dissolved	EPA 6010C	0.5
Selenium, total and dissolved	EPA 6020A	0.003
Selenate and selenite, dissolved ³	IC-ICP-DRC-MS	0.003 and 0.003
Silver, total and dissolved	EPA 6020A	0.0001
Sodium, dissolved	EPA 6010C	0.5
Sulfate	EPA 300.0	1.0
Total Sulfide	SM 4500-S-F	1
Thallium, total and dissolved	EPA 6020A	0.001
Total Dissolved Solids (TDS)	SM 2540C	10
Total Organic Carbon (TOC)	SM 5310B	1

Laboratory Analyses	Method	Reporting Limit (RL) ² (mg/L)
Total Suspended Solids (TSS)	SM 2540D	5
Uranium, total and dissolved	EPA 6020A	0.001
Vanadium, total and dissolved	EPA 6020A	0.0015
Zinc, total and dissolved	EPA 6020A	0.005

¹ The April 2016 revision involved removal of organic selenium species (dimethyl selenide and dimethyl diselenide) from the full analytical suite for Fluidized Bed Bioreactor sampling.

² Each laboratory's method detection limits (MDLs) and RLs may change over time.

³ Selenium species will be analyzed by a separate laboratory and at a different frequency than the other analytes.